

Specification

The Translucent Sheeting shall be Solasafe Residential Polycarbonate Sheeting in a 5 Rib profile as supplied by Ampelite (NZ) Limited. The thickness of the sheet shall be 0.8mm and has an effective cover of 760mm. Solasafe 5 Rib will side lap onto most of the 5 Rib roofing profiles commonly available in New Zealand.

Warranty

A protective co-extruded layer on the outer surface of the sheet forms a barrier which is resistant to the detrimental effects of UV light, minimizing long term yellowing and maintaining mechanical properties. Solasafe Residential Polycarbonate sheeting carries a limited life time warranty in respect of light transmission and water transmission.

Installation

Solasafe sheeting shall be installed in accordance with Ampelite fixing instructions and with AS/NZS 1562.3:1996, Design and installation of sheet roof and wall cladding, Part 3: Plastic, the requirements of the NZ building code.

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Please note these additional important requirements:

Solasafe 5 Rib profile shall be installed using the 65mm fastening. The sheeting must be installed by pre-drilling 10mm oversize holes to allow for expansion and contraction. The fixing screws shall be located in the centre of the rib must not be over tightened to an extent that the sheet buckles, allowing water penetration at the seal or sheet overlap. Fixing should be made at every crest at both ends of the sheet, and every second crest at intermediate purlins. Solasafe Polycarbonate sheeting 5 Rib profile shall only be installed using Ampelite's propriety fixings. Solasafe is fixed and flashed on similar principles as steel roofing. Minimum fall is 5 degrees. Start by fixing the first sheet at the end farthest from the usual wind direction. If end laps are necessary, start at the bottom corner.

To ensure accuracy Ampelite recommends the following:

- 1- Install screws into the Solasafe sheeting in the same manner as metal.
- 2- When completed, remove fixings from the Solasafe sheet.
- 3- Using the existing screw hole as a guide, re drill over sizing the hole.
- 4- Re install the fixing screw. (Note how the screw is centrally located in the hole)
- 5- Do not over tighten the screw putting undue pressure on the Solasafe sheet.

Purlin Protection and Anti-noise tape

If safety mesh is incorporated under the Solasafe roof sheeting. Where the Solasafe roof sheeting passes over safety mesh sitting on the supporting purlin, Ampelite Anti-noise foam tape must be placed directly under the Solasafe sheeting. This foam tape will protect the Solasafe sheeting from damage and help reduce the noise caused by the sheet expanding and contracting.

Side laps

Laps should face away from the prevailing wind direction.

Spans, End laps and over-hangs

- Please refer to the Span Table and do not exceed the measurements shown.
- End laps (if required on very long runs) are best placed at battens or purlins. Allow 200mm for low pitched roofs and 150mm on steeper falls. Excessive overlap should be avoided. Overhang at the eave must not exceed 100mm and be less in high wind areas. In most installations 50mm is sufficient.

Wall Cladding

Pan fixing is required at each girt, and use of Ampelite grey dome 22 mm weather seals ensures a weather tight seal. Over tightening or flattening the weather seal must be avoided. Fixing shall occur in every pan at both ends of the sheeting, and every other pan at intermediate grits.

End Closure Strip

Foam filler strip is available to suit most profiles. This strip should be installed at the ends of the sheets to exclude dirt, birds and vermin.

Cutting

Should cutting of the Solasafe sheet onsite be necessary the use of a circular saw with a small tooth blade suitable for plastic sheeting is recommended. Care should be taken to achieve a cut with minimal damage to the sheet.

Storage

The sheeting should always be stored in a dry and fire safe area. Do not store heavy materials on top of sheets as they may fracture.

Recycling and disposal

Solasafe Polycarbonate sheeting is recyclable and can be disposed of in a land fill.

Non-trafficable

Solasafe sheeting is a non-trafficable material. Sheets should be handled with care to avoid damage to the surface. Guarantees will not apply to sheeting that has been damaged in handling, or mechanical damage as a result of foot traffic.